



FCC Test Report

FCC ID:2AC3L-PH-M54

Product : Smart phone

Trade Name : MULTITECH

Model Number : PH-M54

Serial Model : MT-MB540, SP-M54A, CM-QC54, S750

Report No. : NTEK-2014NT12092195F3

Prepared for

Global China Link PTE LTD.

44-02, ONE RAFFLES PLACE NO. 1, RAFFLES PLACE
SINGAPORE 048616

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Global China Link PTE LTD.
Address : # 44-02, ONE RAFFLES PLACE NO. 1, RAFFLES PLACE
SINGAPORE 048616
Manufacturer's Name : shenzhen hitopwave technology Co.,LTD.
Address : 8F Fucheng Hi-tech Building, NanShan District, Shenzhen, China

Product description

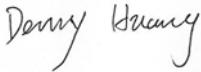
Product name : Smart phone
Model and/or type reference : PH-M54
FCC Part15B:01 Oct.2014
Standards : ANSI C63.4:2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests : 09 Dec. 2014 ~25 Dec. 2014
Date of Issue : 25 Dec. 2014
Test Result : **Pass**

Testing Engineer : 

Denny Huang

Technical Manager : 

(Brown Lu)

Authorized Signatory : 

(Bill Yao)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2014	Conducted Emission	Class B	PASS	
ANSI C63.4: 2003	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart phone						
Model Name	PH-M54						
Additional Model Number(s)	MT-MB540, SP-M54A, CM-QC54, S750						
Model Difference	All the model are the same circuit and RF module, except the model name and colour.						
Product Description	<p>The EUT is a Smart phone.</p> <table border="1"><tr><td>Connecting I/O port:</td><td>USB, DC in ,HDMI</td></tr><tr><td>Operation Frequency:</td><td>BT:2402~2480 MHz WIFI: 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz GSM: 824.2-848.8MHz/1850.2-1909.8MHz WCDMA: 826.4-846.6MHz/ 1852.4-1907.6MHz</td></tr><tr><td>Modulation Type:</td><td>BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$-DQPSK BT EDR(3Mbps): 8-DPSK WIFI: CCK/OFDM/DBPSK/DAPS GSM / DCS: GMSK WCDMA:QPSK</td></tr></table>	Connecting I/O port:	USB, DC in ,HDMI	Operation Frequency:	BT:2402~2480 MHz WIFI: 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz GSM: 824.2-848.8MHz/1850.2-1909.8MHz WCDMA: 826.4-846.6MHz/ 1852.4-1907.6MHz	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK WIFI: CCK/OFDM/DBPSK/DAPS GSM / DCS: GMSK WCDMA:QPSK
Connecting I/O port:	USB, DC in ,HDMI						
Operation Frequency:	BT:2402~2480 MHz WIFI: 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz GSM: 824.2-848.8MHz/1850.2-1909.8MHz WCDMA: 826.4-846.6MHz/ 1852.4-1907.6MHz						
Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK WIFI: CCK/OFDM/DBPSK/DAPS GSM / DCS: GMSK WCDMA:QPSK						
Power Source	DC Voltage						
Adapter	Input: 100-240V~,50/60 Hz Output: 5.0V---, 1.0A						
Battery	DC 3.7V ,1900mAh						

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Playing+chagring
Mode 2	HDMI
Mode 3	Data Exchange
Mode 4	REC Mode

For Conducted Test	
Final Test Mode	Description
Mode 1	Playing+chagring
Mode 2	HDMI
Mode 3	Data Exchange
Mode 4	REC Mode

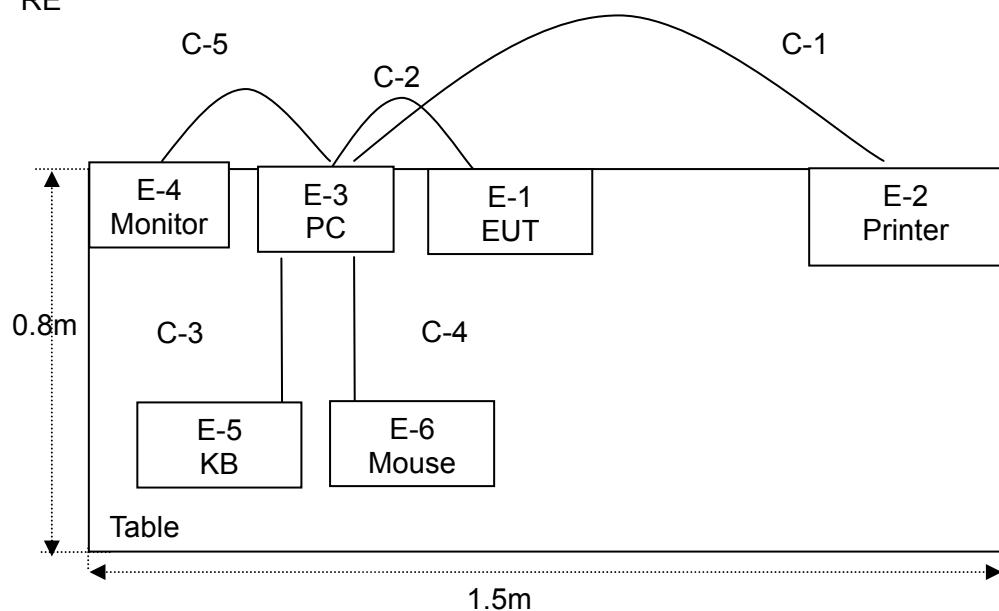
For Radiated Test	
Final Test Mode	Description
Mode 1	Playing+chagring
Mode 2	HDMI
Mode 3	Data Exchange
Mode 4	REC Mode

Note: Final Test Mode: Through Pre-scan, find the mode 3 is the worse case.

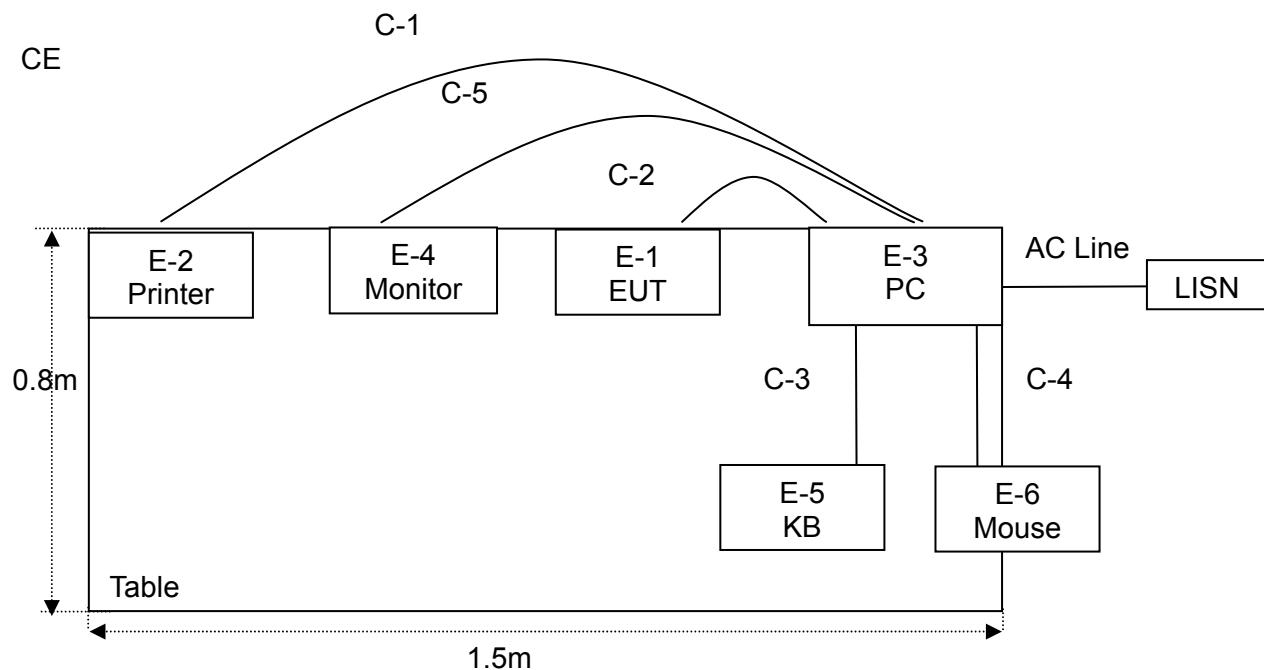
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

RE



CE



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Smart phone	MULTITECH	PH-M54	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	1.0m	
C-5	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

2.4 MEASUREMENT INSTRUMENTS LIST

2.4.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	LISN	R&S	ENV216	101313	Jul. 06, 2014	Jul. 05, 2015	1 year
2	LISN	SCHWARZBECK	NNLK 8129	8129245	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	Dec. 25, 2014	Dec. 24, 2015	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2014	Jul. 05, 2015	1 year
5	Test Cable	N/A	C01	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2014	Jul. 07, 2015	1 year

2.4.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2014	Jul. 05, 2015	1 year
2	Test Cable	N/A	R-01	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Test Cable	N/A	R-02	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2014	Jul. 05, 2015	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2014	Jul. 05, 2015	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2014	Jul. 05, 2015	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06, 2014	Jul. 05, 2015	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

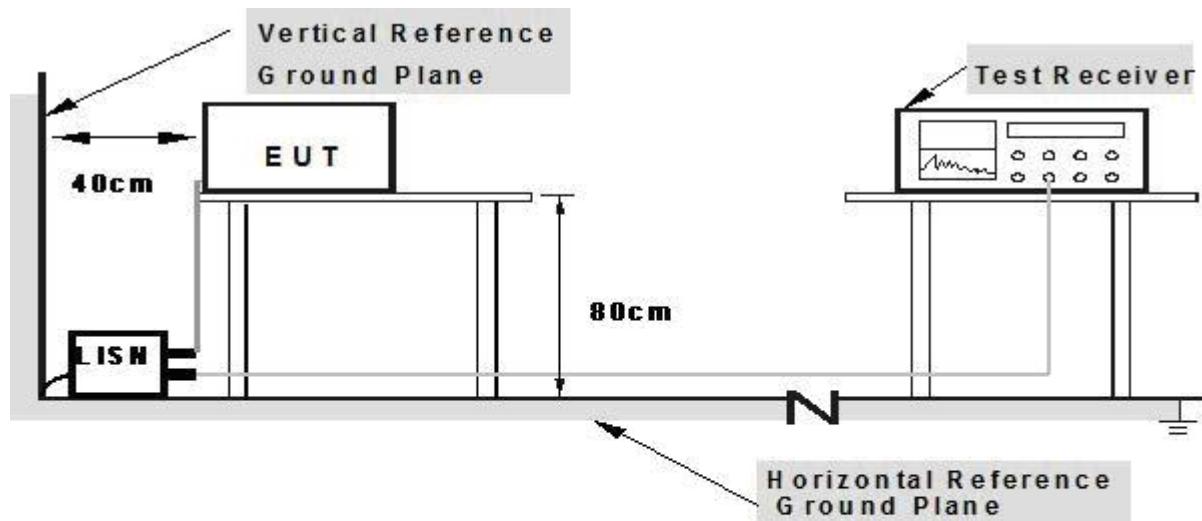
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (A and B) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

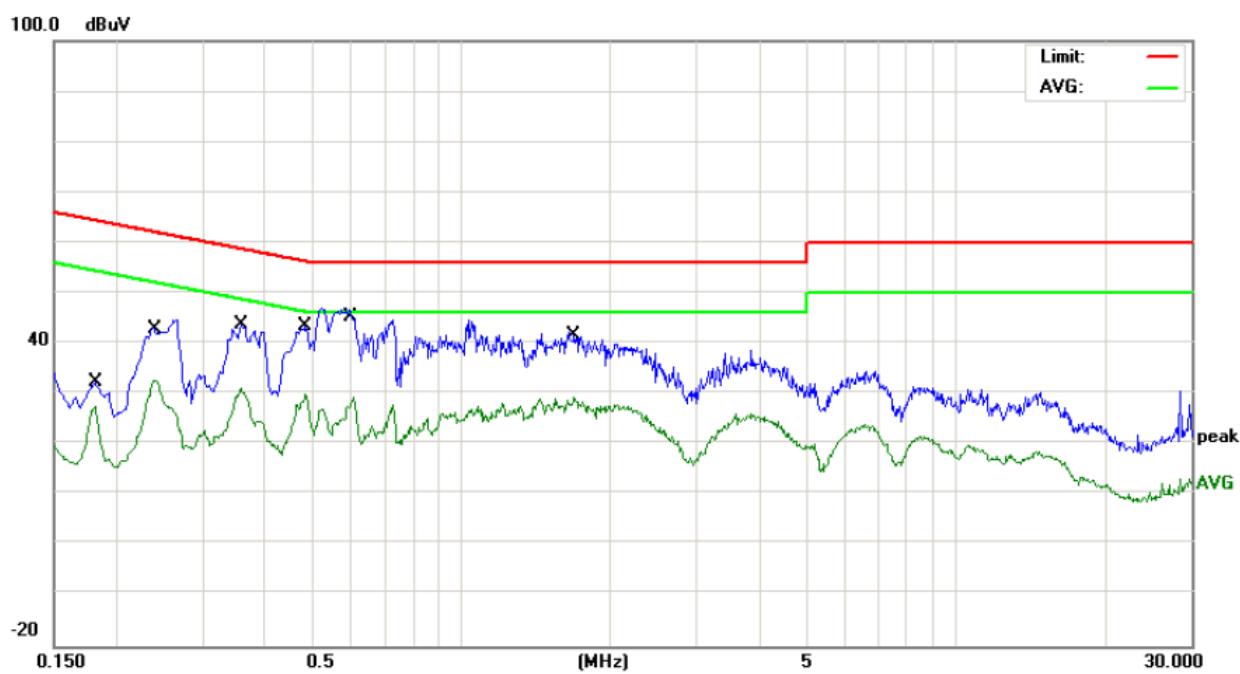
3.1.5 TEST RESULTS

EUT :	Smart phone	Model Name. :	PH-M54
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2014-12-20
Test Mode :	Mode 3	Phase :	L
Test Voltage :	DC 5V From ADAPTER AC 120V/60Hz		

Frequency (MHz)	Reading Level (dB μ V)	Correct Factor (dB)	Measure-ment (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
0.1819	21.25	9.54	30.79	64.39	-33.60	QP
0.1819	17.95	9.54	27.49	54.39	-26.90	AVG
0.2419	32.00	9.49	41.49	62.03	-20.54	QP
0.2419	23.24	9.49	32.73	52.03	-19.30	AVG
0.3579	33.47	9.50	42.97	58.78	-15.81	QP
0.3579	21.71	9.50	31.21	48.78	-17.57	AVG
0.4859	33.45	9.51	42.96	56.24	-13.28	QP
0.4859	20.38	9.51	29.89	46.24	-16.35	AVG
0.6059	37.34	9.52	46.86	56.00	-9.14	QP
0.6059	19.81	9.52	29.33	46.00	-16.67	AVG
1.6979	32.69	9.54	42.23	56.00	-13.77	QP
1.6979	19.89	9.54	29.43	46.00	-16.57	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

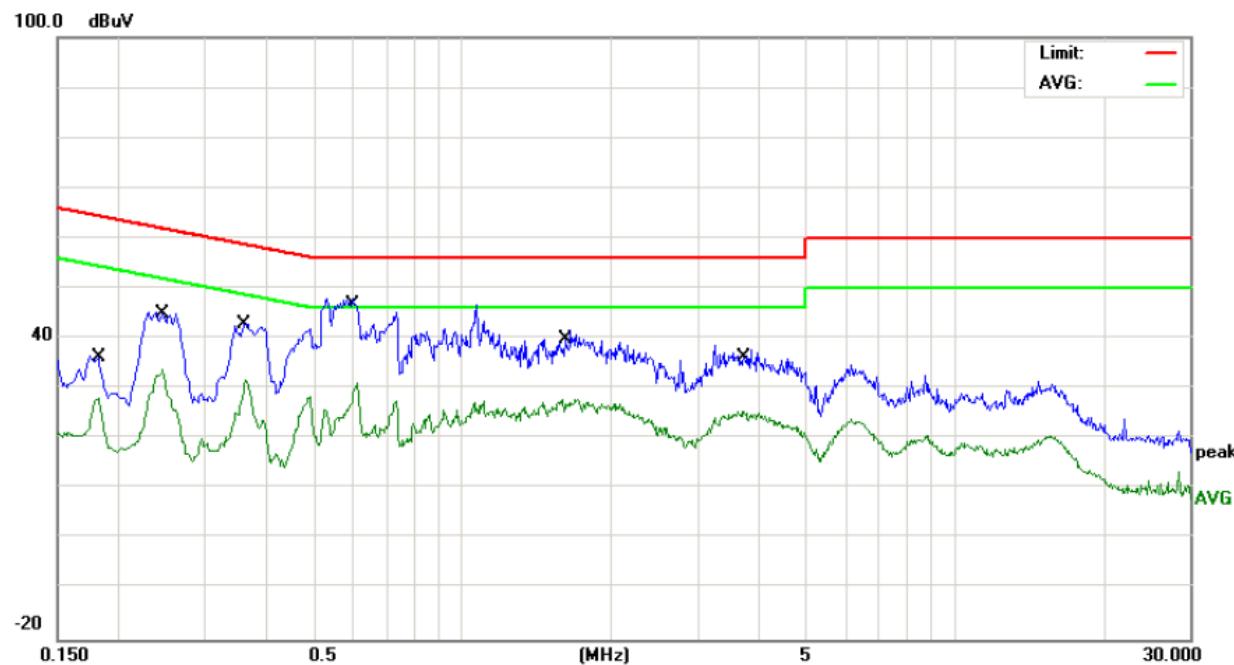


EUT :	Smart phone	Model Name. :	PH-M54
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2014-12-20
Test Mode :	Mode 3	Phase :	N
Test Voltage :	DC 5V From ADAPTER AC 120V/60Hz		

Frequency (MHz)	Reading Level (dB μ V)	Correct Factor (dB)	Measure-ment (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
						QP
0.1819	26.93	9.54	36.47	64.39	-27.92	QP
0.1819	18.57	9.54	28.11	54.39	-26.28	AVG
0.2459	35.88	9.49	45.37	61.89	-16.52	QP
0.2459	24.36	9.49	33.85	51.89	-18.04	AVG
0.3619	32.91	9.50	42.41	58.68	-16.27	QP
0.3619	22.18	9.50	31.68	48.68	-17.00	AVG
0.6099	38.50	9.52	48.02	56.00	-7.98	QP
0.6099	21.54	9.52	31.06	46.00	-14.94	AVG
1.5940	30.34	9.54	39.88	56.00	-16.12	QP
1.5940	18.23	9.54	27.77	46.00	-18.23	AVG
3.7339	27.54	9.58	37.12	56.00	-18.88	QP
3.7339	15.83	9.58	25.41	46.00	-20.59	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

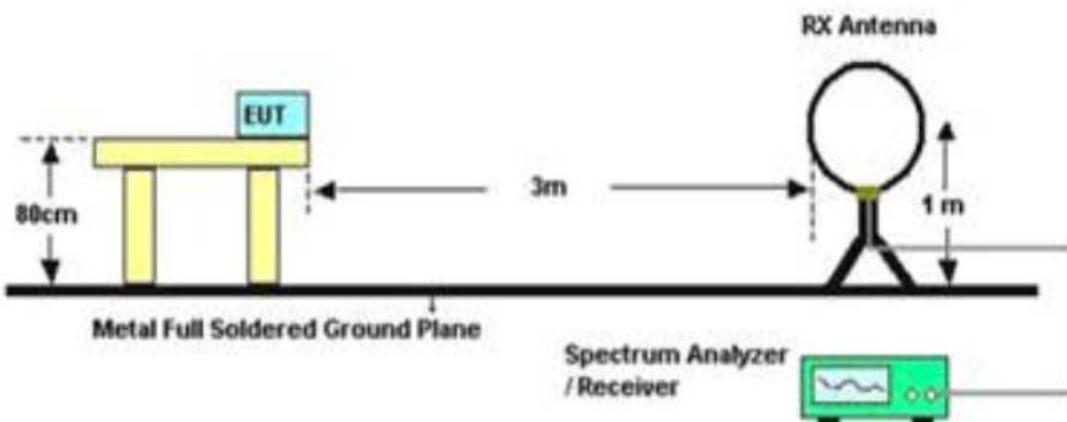
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

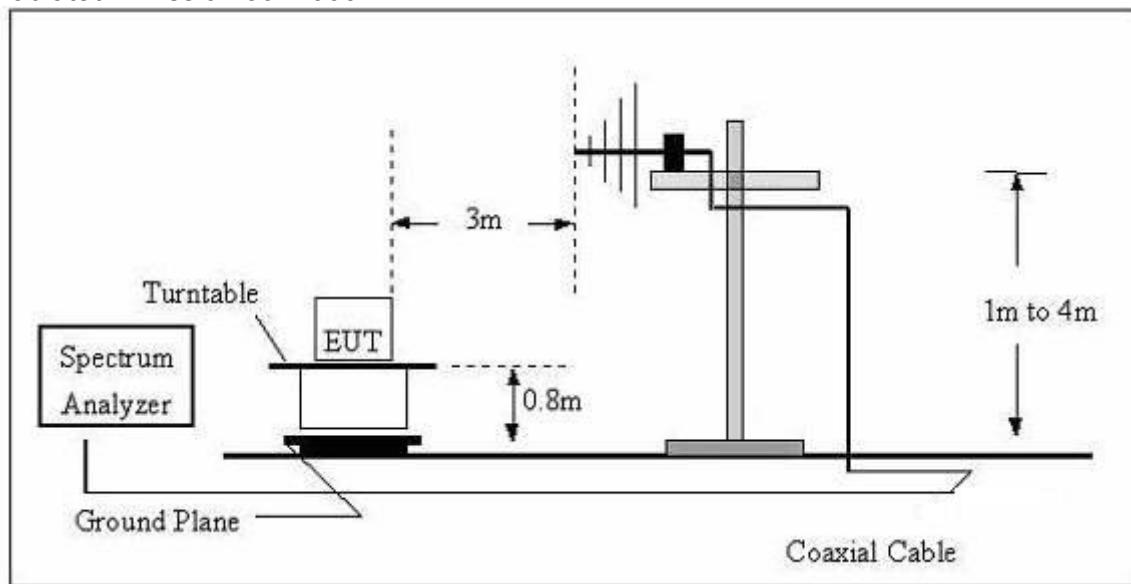
3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz

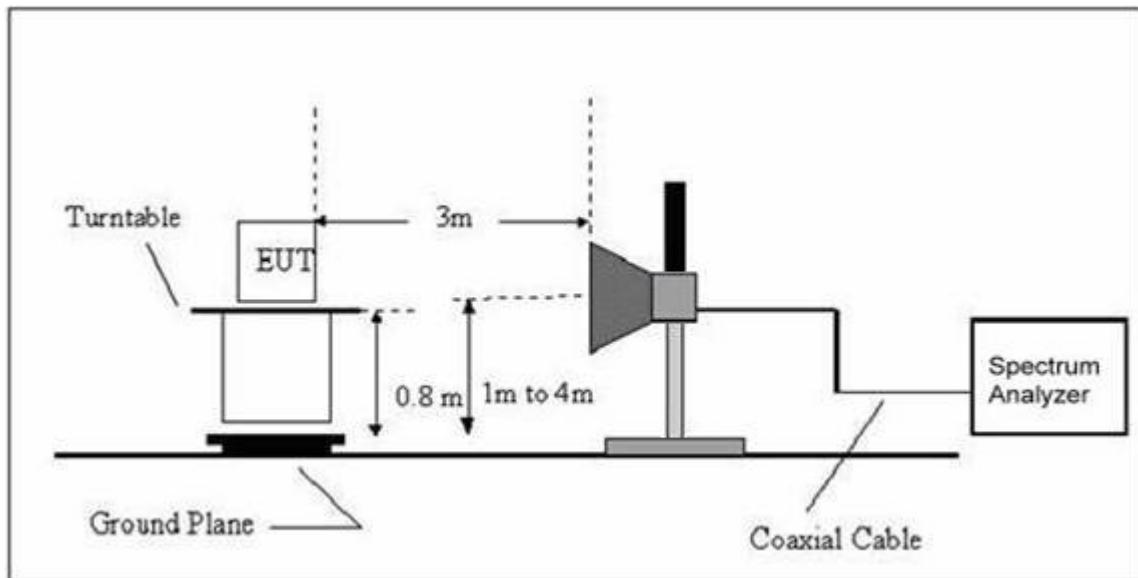
For radiated emissions below 30MHz



For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 TEST RESULTS

TEST RESULTS (Below 30 MHz)

EUT :	Smart phone	Model Name :	PH-M54
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	---
Test Mode :	TX	Polarization :	---

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
--	--	--	--	P
--	--	--	--	P

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log \left(\frac{\text{specific distance}}{\text{test distance}} \right)$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

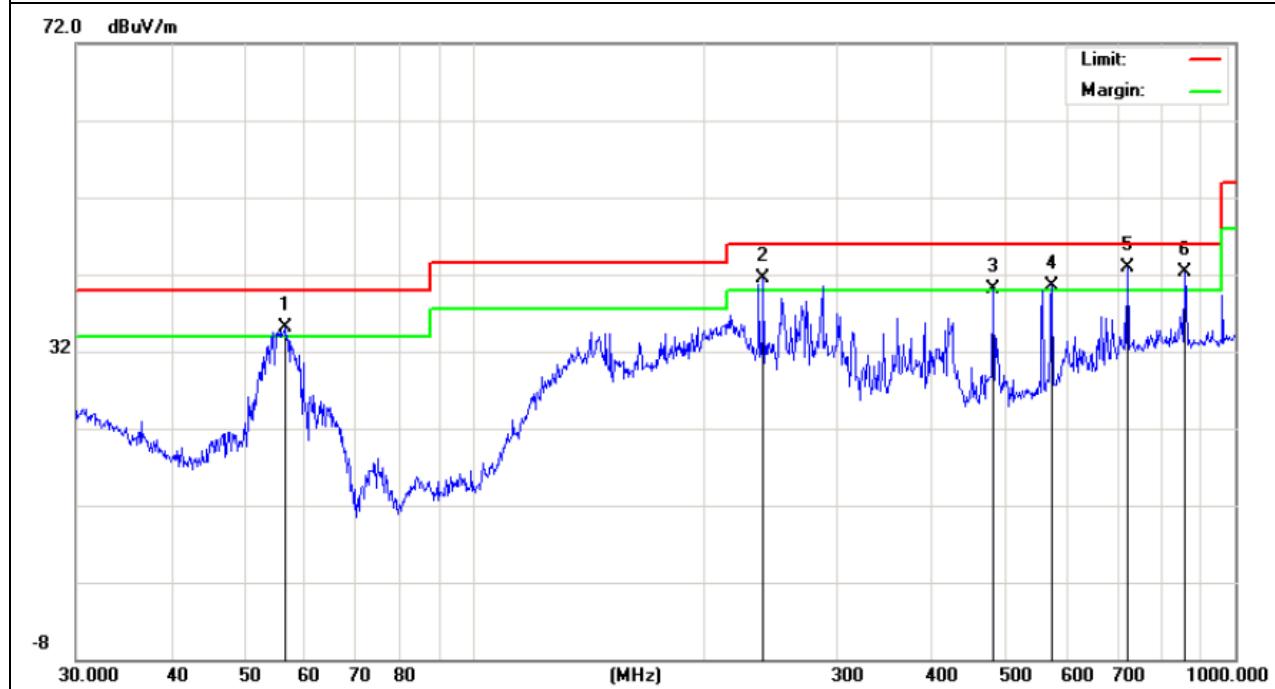
TEST RESULTS (30~1000 MHz)

EUT :	Smart phone	Model Name :	PH-M54
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2014-12-20
Test Mode :	Mode 3	Polarization :	Horizontal
Test Power :	DC 5V From ADAPTER AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
56.5929	26.27	8.81	35.08	40.00	-4.92	peak
239.9874	28.03	13.49	41.52	46.00	-4.48	peak
480.5276	20.16	19.91	40.07	46.00	-5.93	peak
574.6258	18.62	21.86	40.48	46.00	-5.52	peak
721.7259	17.48	25.36	42.84	46.00	-3.16	peak
860.0352	15.16	27.19	42.35	46.00	-3.65	peak

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

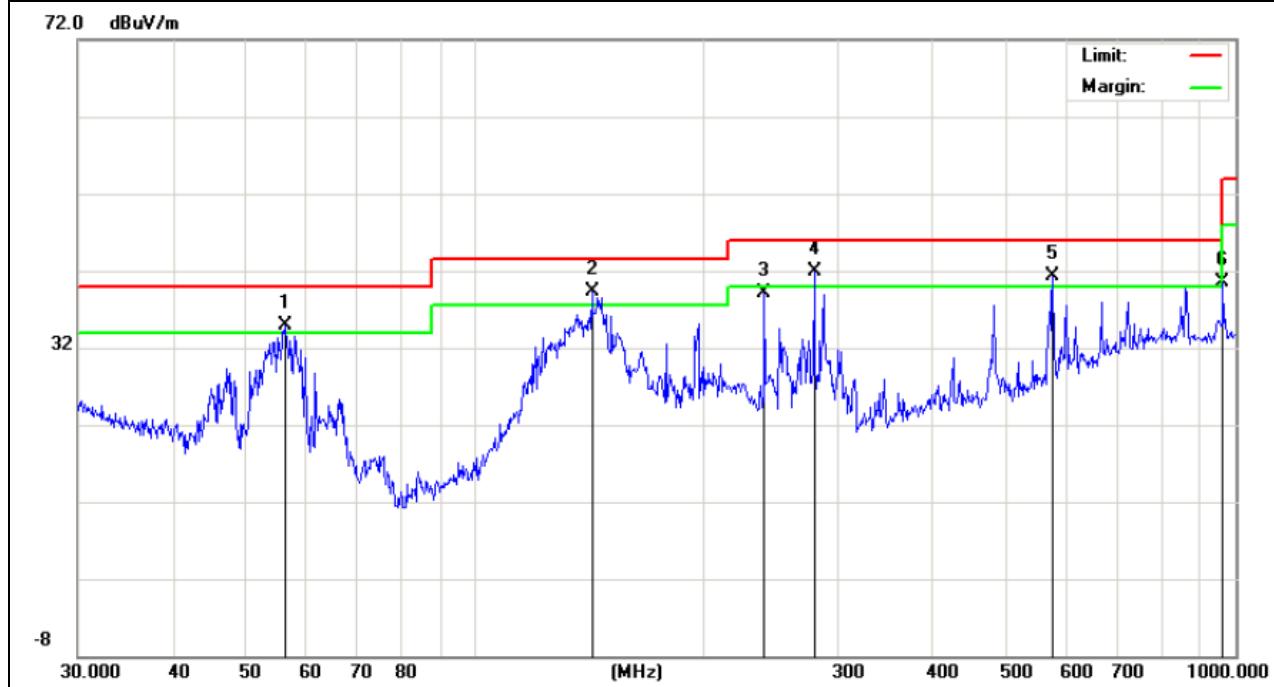


EUT :	Smart phone	Model Name :	PH-M54
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2014-12-20
Test Mode :	Mode 3	Polarization :	Vertical
Test Power :	DC 5V From ADAPTER AC 120V/60Hz		

	Freq.	Reading	Factor	Measurement	Limit	Over	Remark
	(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	
	56.1974	26.03	8.92	34.95	40.00	-5.05	peak
	142.3241	28.03	11.18	39.21	43.50	-4.29	peak
	239.9874	25.58	13.49	39.07	46.00	-6.93	peak
	279.0436	28.05	13.92	41.97	46.00	-4.03	peak
	574.6258	19.41	21.86	41.27	46.00	-4.73	peak
	962.1621	13.10	27.38	40.48	54.00	-13.52	peak

Remark:

1. All readings are Peak and Average values.
2. Factor = Antenna Factor + Cable Loss - Amplifier.
3. N/A means All Data have pass Limit

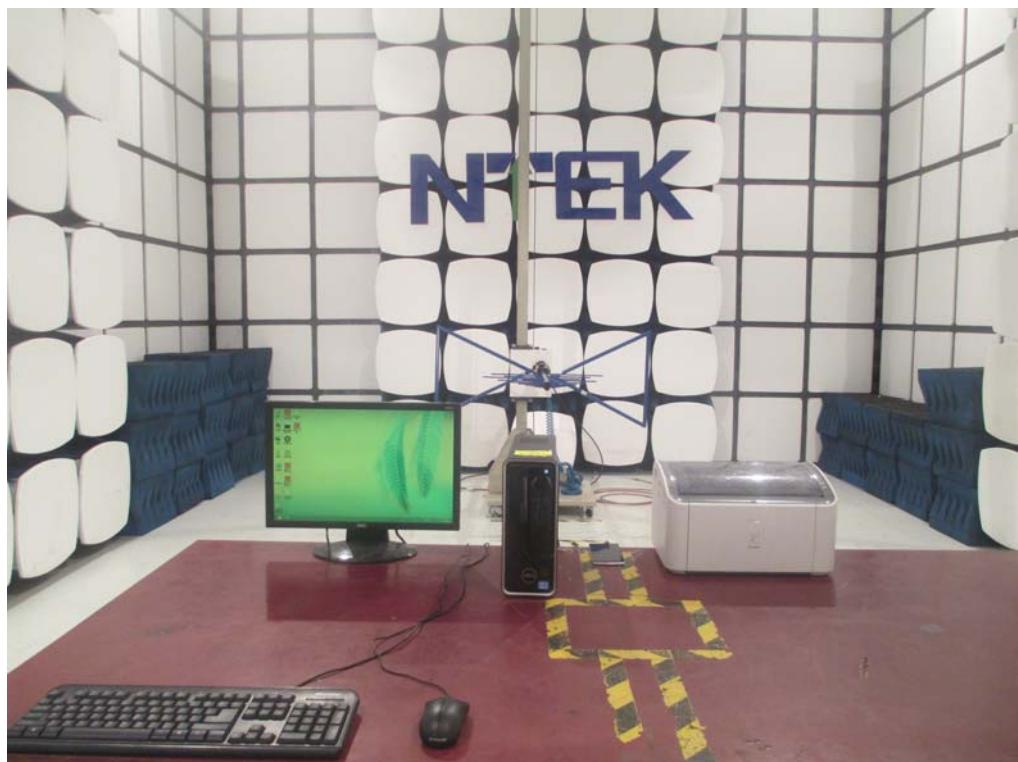


3.2.6 TEST RESULTS(1000~12400MHz)

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1224.449	64.05	-17.06	46.99	74	-27.01	peak
V	1224.449	41.65	-17.06	24.59	54	-29.41	AVG
V	2036.54	62.32	-12.09	50.23	74	-23.77	peak
V	2036.54	40.87	-12.09	28.78	54	-25.22	AVG
V	2361.926	61.86	-11.84	50.02	74	-23.98	peak
V	2361.926	39.27	-11.84	27.43	54	-26.57	AVG
V	2761.733	61.98	-10.57	51.41	74	-22.59	peak
V	2761.733	39.59	-10.57	29.02	54	-24.98	AVG
V	2961.821	61.27	-10.75	50.52	74	-23.48	peak
V	2961.821	41.23	-10.75	30.48	54	-23.52	AVG
V	4086.635	58.06	-4.77	53.29	74	-20.71	peak
V	4086.635	36.66	-4.77	31.89	54	-22.11	AVG
H	1424.939	58.88	-16.22	42.66	74	-31.34	peak
H	1424.939	38.69	-16.22	22.47	54	-31.53	AVG
H	1624.565	59.27	-15.29	43.98	74	-30.02	peak
H	1624.565	39.46	-15.29	24.17	54	-29.83	AVG
H	2036.454	57.68	-12.09	45.59	74	-28.41	peak
H	2036.454	37.07	-12.09	24.98	54	-29.02	AVG
H	2811.833	57.48	-10.4	47.08	74	-26.92	peak
H	2811.833	36.2	-10.4	25.8	54	-28.2	AVG
H	3899.618	54.12	-6.04	48.08	74	-25.92	peak
H	3899.618	32.52	-6.04	26.48	54	-27.52	AVG
H	4874.462	51.98	-2.34	49.64	74	-24.36	peak
H	4874.462	30.92	-2.34	28.58	54	-25.42	AVG

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

4. EUT TEST PHOTO**Radiated Measurement Photos**

Conducted Measurement Photos